Rajalakshmi Engineering College

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Batch: 2028

Degree: B.E - AI & DS



NeoColab_REC_CS23231_DATA STRUCTURES

REC_DS using C_Week 7_COD_Question 3

Attempt : 1 Total Mark : 10 Marks Obtained : 10

Section 1: Coding

1. Problem Statement

In a messaging application, users maintain a contact list with names and corresponding phone numbers. Develop a program to manage this contact list using a dictionary implemented with hashing.

The program allows users to add contacts, delete contacts, and check if a specific contact exists. Additionally, it provides an option to print the contact list in the order of insertion.

Input Format

The first line consists of an integer n, representing the number of contact pairs to be inserted.

Each of the next n lines consists of two strings separated by a space: the name of the contact (key) and the corresponding phone number (value).

The last line contains a string k, representing the contact to be checked or removed.

Output Format

If the given contact exists in the dictionary:

- 1. The first line prints "The given key is removed!" after removing it.
- 2. The next n 1 lines print the updated contact list in the format: "Key: X; Value: Y" where X represents the contact's name and Y represents the phone number.

If the given contact does not exist in the dictionary:

- 1. The first line prints "The given key is not found!".
- 2. The next n lines print the original contact list in the format: "Key: X; Value: Y" where X represents the contact's name and Y represents the phone number.

Refer to the sample outputs for the formatting specifications.

Sample Test Case

Input: 3 Alice 1234567890 Bob 9876543210 Charlie 4567890123 Bob

> Output: The given key is removed! Key: Alice; Value: 1234567890 Key: Charlie; Value: 4567890123

Answer

You are using Python def manage_contacts():

n = int(input().strip())

```
24,180,111
                                                    241801111
       contacts = {}
       for _ in range(n):
         name, phone = input().strip().split()
         contacts[name] = phone
       key_to_check = input().strip()
       if key_to_check in contacts:
         print("The given key is removed!")
                                                                               24,801,11
                                                    241801111
         contacts.pop(key_to_check)
       else:
         print("The given key is not found!")
       for name, phone in contacts.items():
         print(f"Key: {name}; Value: {phone}")
     manage_contacts()
     Status: Correct
                                                                        Marks: 10/10
241801111
                                                    241801111
```

001111

24,801111

241801111

24,801,11